



Ques. What do you understand by Software in computer science and how can you categorize the Software?

A Software is a collection of programs and procedures whose objective is to enhance the capabilities of hardware machine.

Computer Software is normally classified into two categories.

- 1) Application Software.
- 2) System Software.

System Software:- Application Software is a set of one or more programs designed to control the operation of a computer system. These programs do not solve specific problems they are generally programs written to help humans in use of computer system.

Application Software:- Application Software is a set of one or more programs designed to carry out operation for a specific task.



For example - A payroll package produces
myself only and an application package
for processing examination results pro-
cesses marksheet as the major output.

Ques. 2 write five features of python that
make it user friendly.

Easy to code. python is very high level
programming language, it get it is easier
to learn.

- Easy to read python code.
- portable.
- Dynamically Typed
- extensible
- Support for GUI

Ques. 3 list the various numerical data type
in python with examples.

Numerical data type holds numerical value
In numerical data type there as such
type as well.

Integers - Integers are used to represent
whole number values Ex - $x = 100$, $y = 124$



~~IT~~ Float - float data type is used to represent decimal points values.

Exa - $x = 10.25$, $y = 1.3$

Complex number - complex numbers are used to represent imaginary values. Imaginary values are denoted with 'j' at the end of the number.

example $x = 10 + 5j$

Boolean - Boolean is used for categorised output since the output of boolean is either true or false.

exam num $5 > 4$

Ques 4 write the output for the following - no expression is evaluated using any python interpreter write error if you thing.

i) `print(18 % 6)`
0

ii) `If $12 + 5 * 9 = 15m$
print("true")`



```
else;  
    print("False")  
= false.
```

III) print ["I+C + 10"]

Type error: Can only concatenate str
(not "int") to str.

IV) num = 5 > 4
 print num.
Output =

Ques 5 Let num 1 and num 2 be two non empty lists write a python Command that will append the last element of num 2 to the end of num 1.

i) program -

```
num 1 ["Ayushi", 2 "Deepa"]  
num 2 ["3" "Deep", 4 "man"]
```

```
num1.append(num2[-1])
```

```
print(num1)  
Output = ["Ayushi", 2 "Deepa", 3 "Deep"]
```


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1) list is mutable and tuple is immutable
Justify the statement with example.

Ans num = [1, "Deepshri", 2, "Bokde"]
num.append("Deep")
print(num)

output - [1, "Deepshri", 2, "Bokde", "Deep"]

It means list is mutable

Tuple is immutable.

exa - num = (1, "Ayushi", 2, "Baranate")
num.append("Deep")

output

Attribute error 'tuple' object has no
attribute append.